

FIG. 1

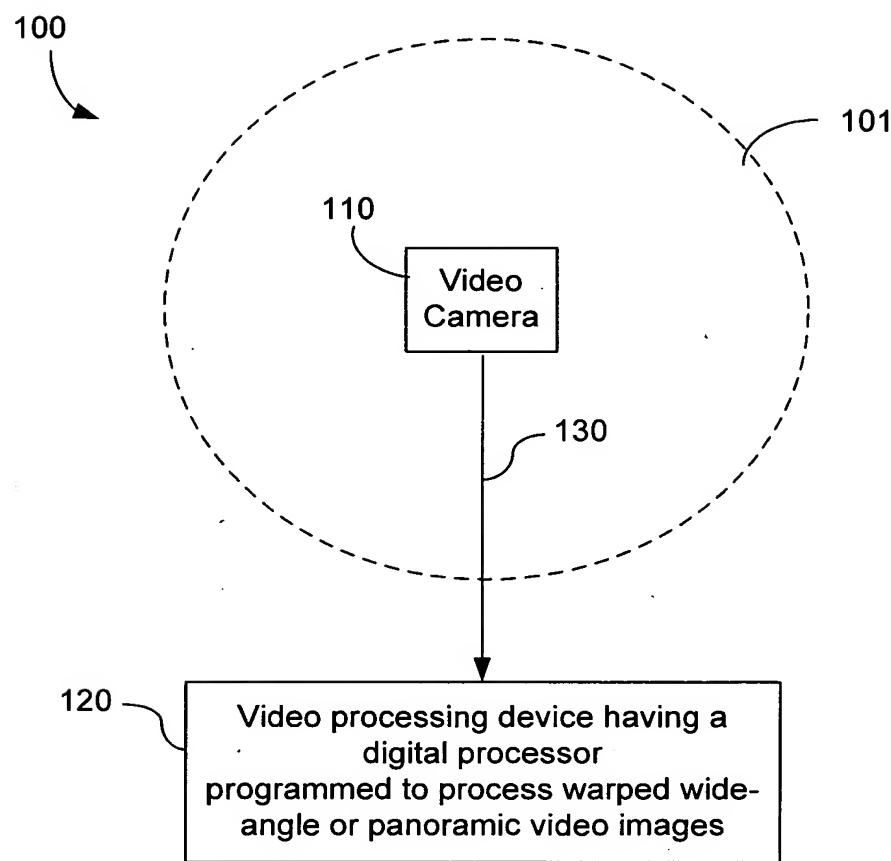


FIG. 2

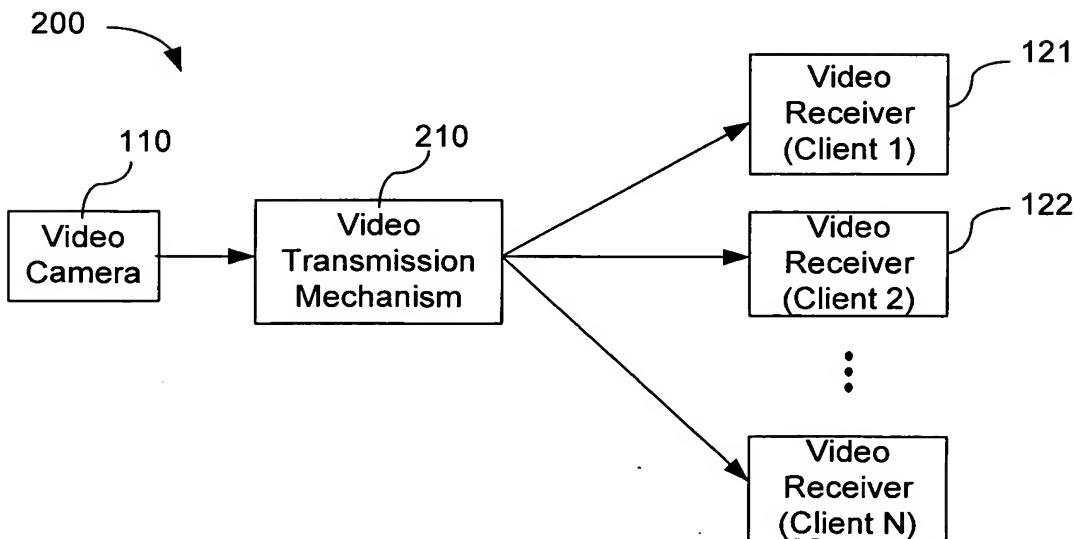


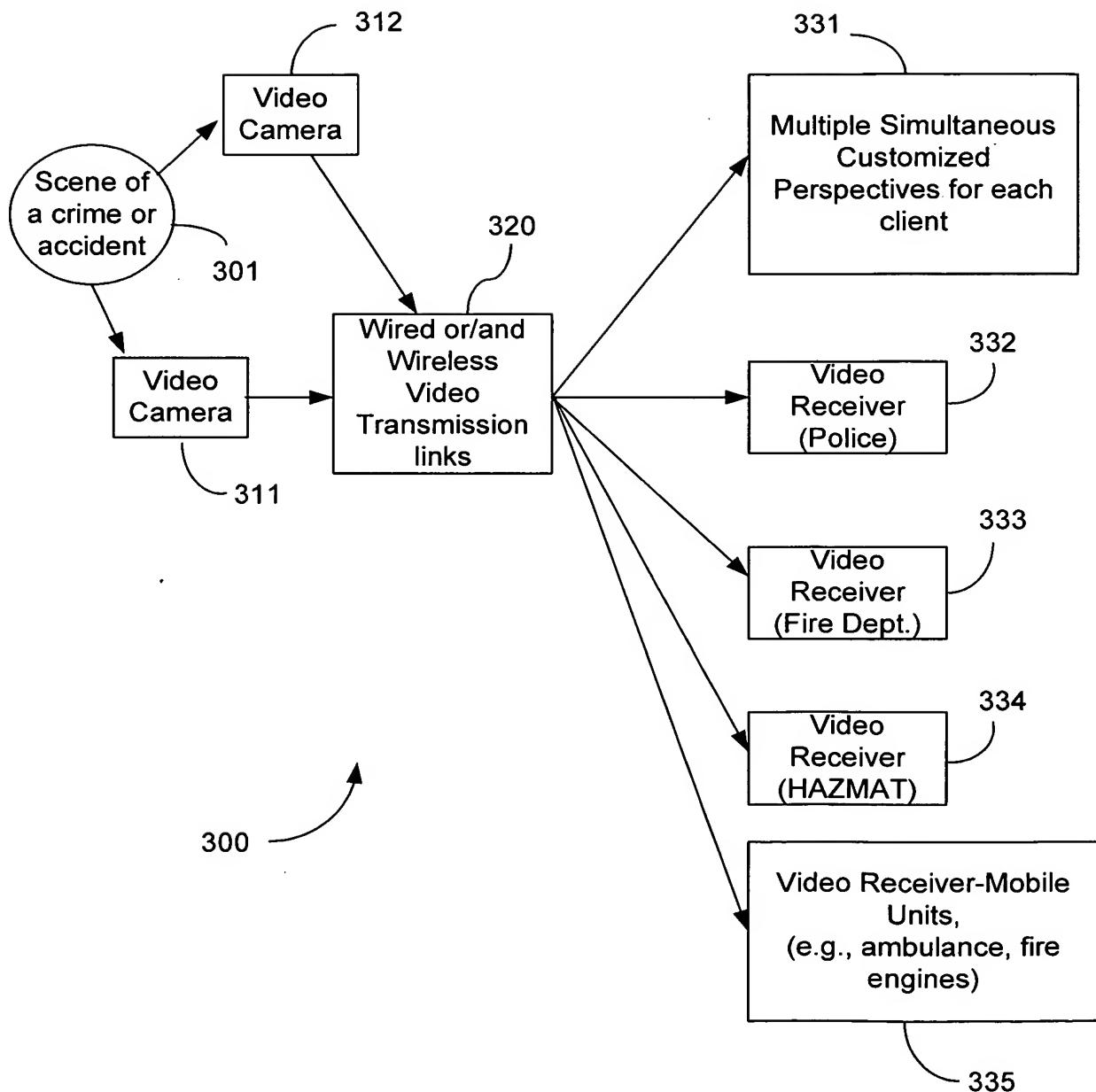
FIG. 3

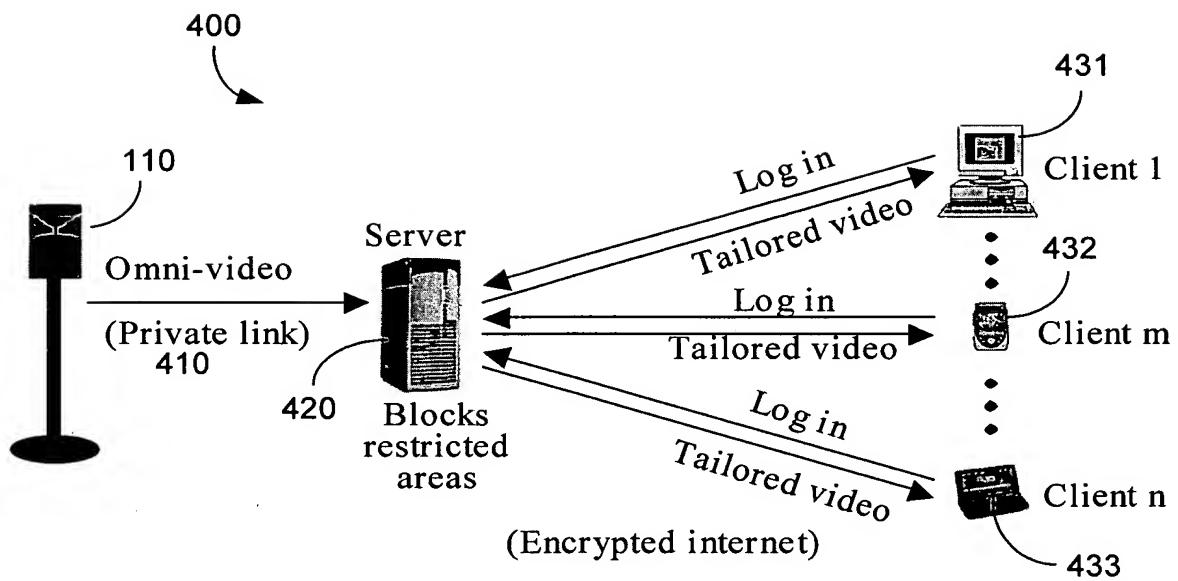
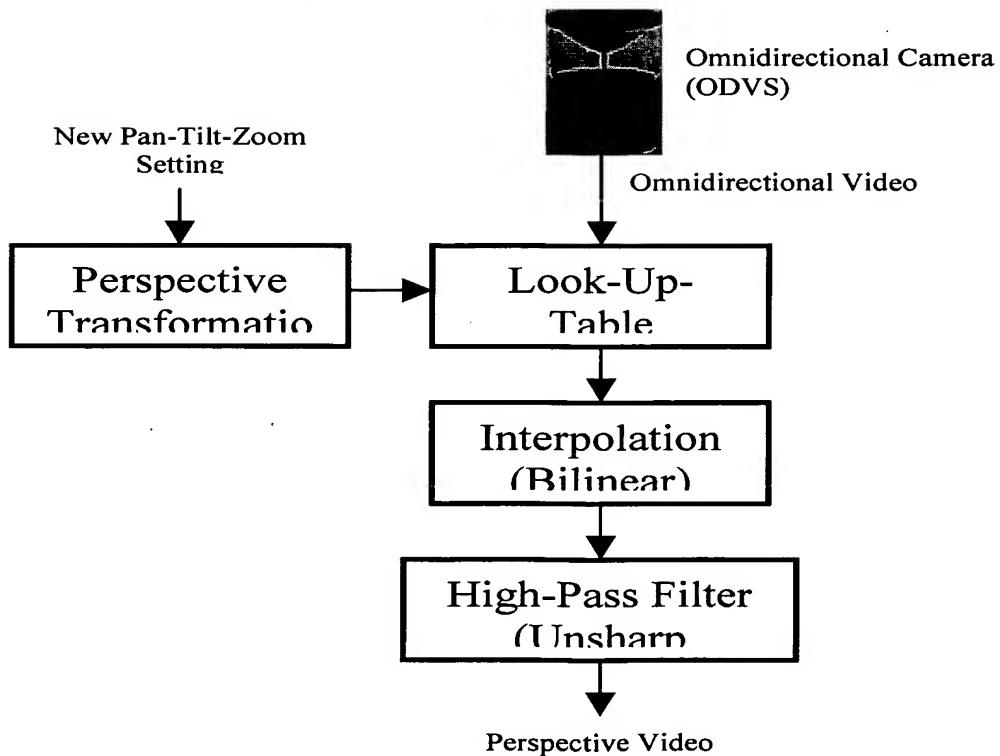
FIG. 4**FIG. 5**

FIG. 6

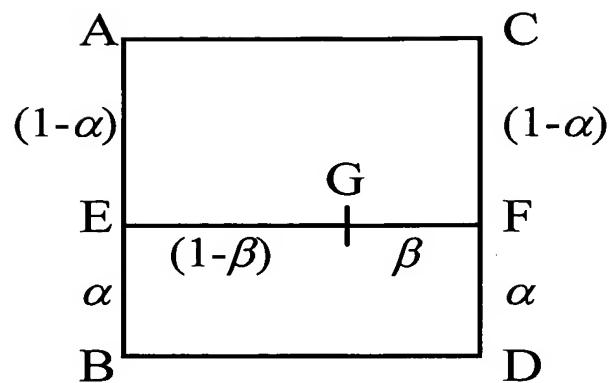
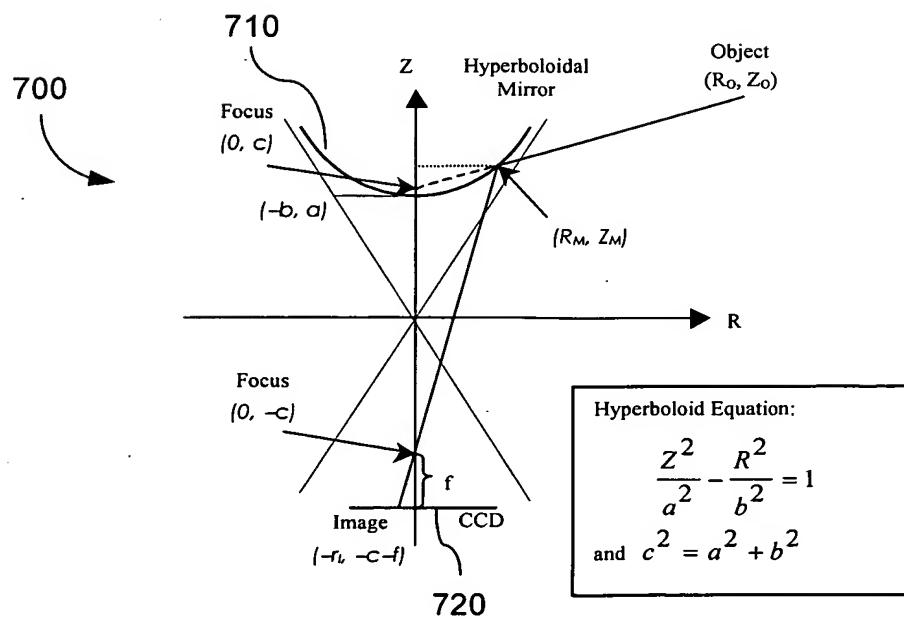


FIG. 7



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FIG. 8

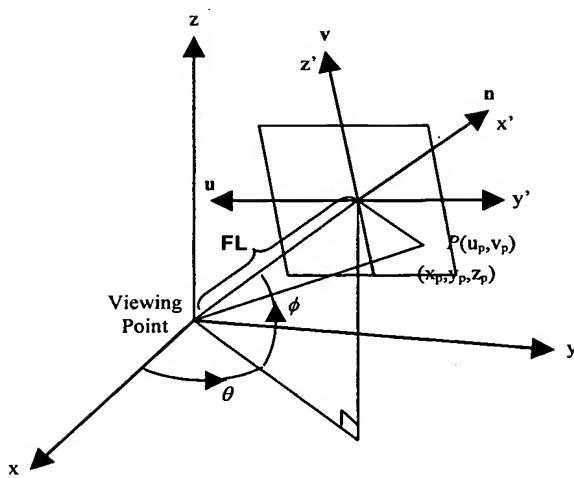


FIG. 9A

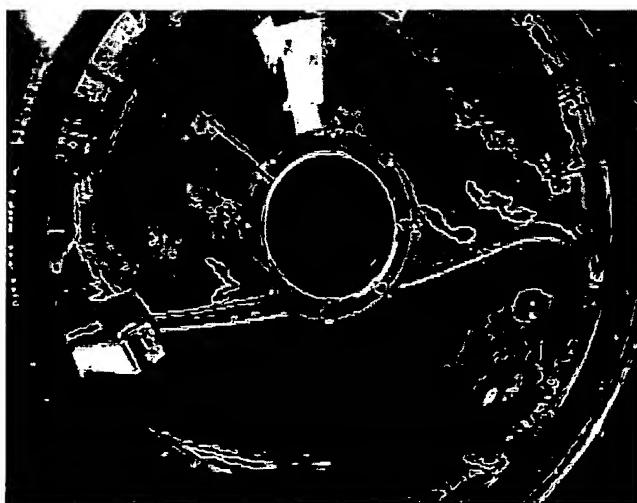


FIG. 9B

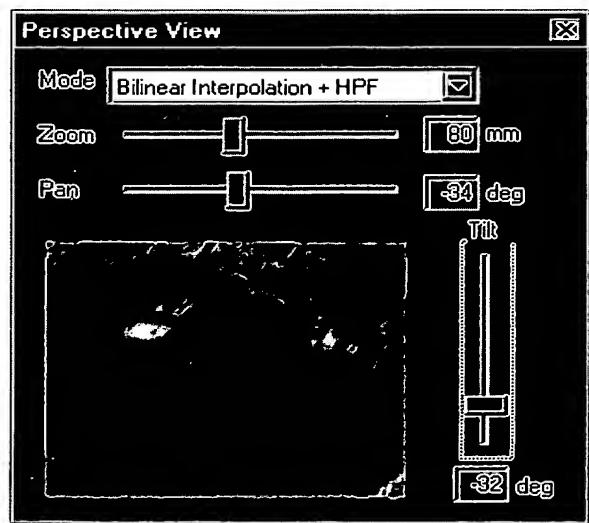


FIG. 9C



FIG. 9D



FIG. 9E

FIG. 9F

FIG. 10



FIG. 11

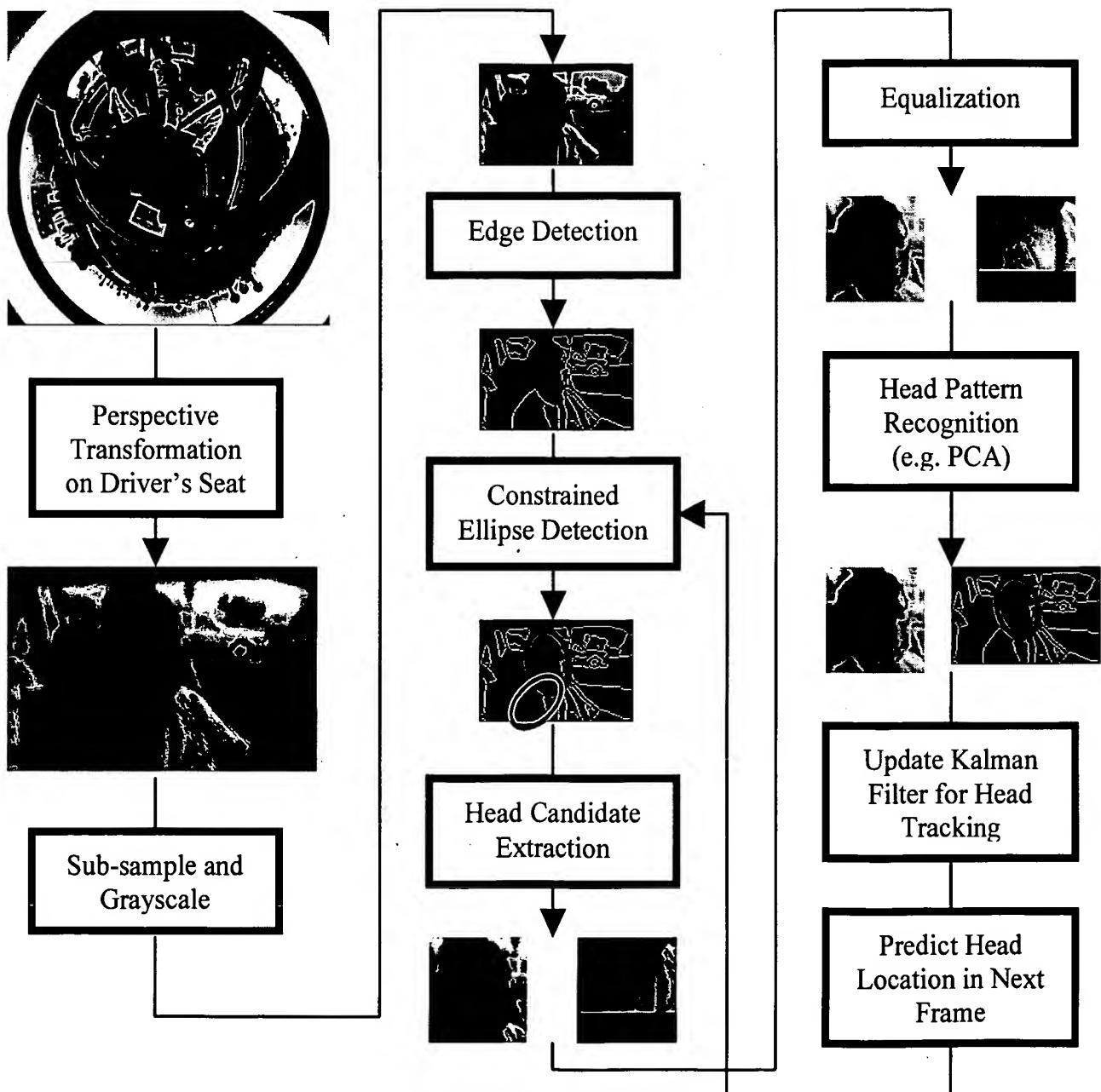


FIG. 12A

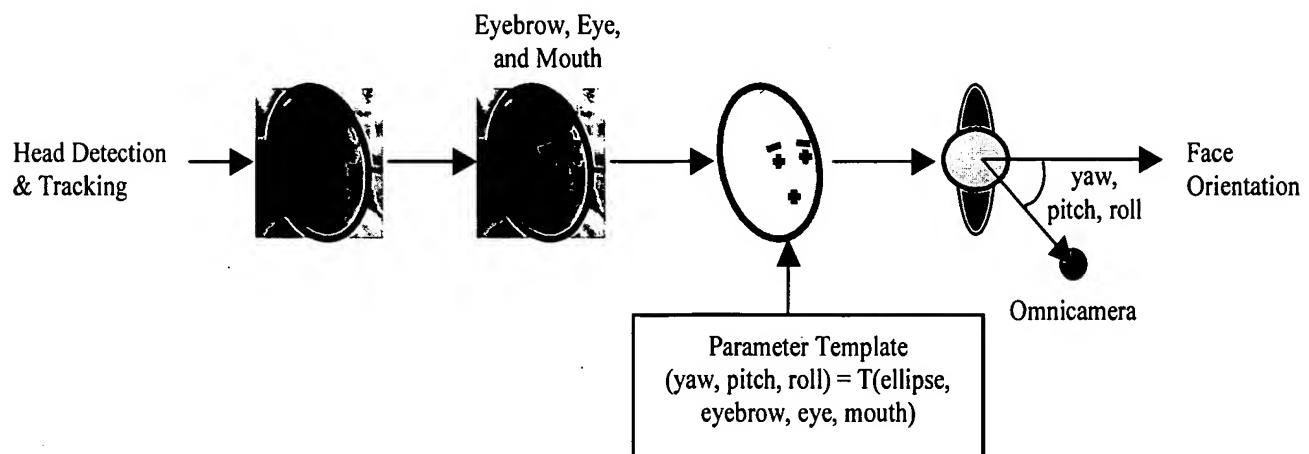


FIG. 12B

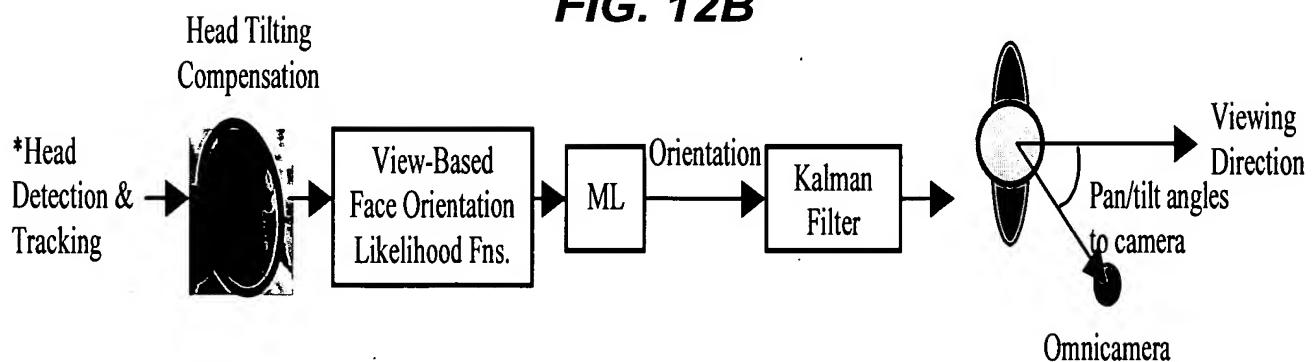


FIG. 13

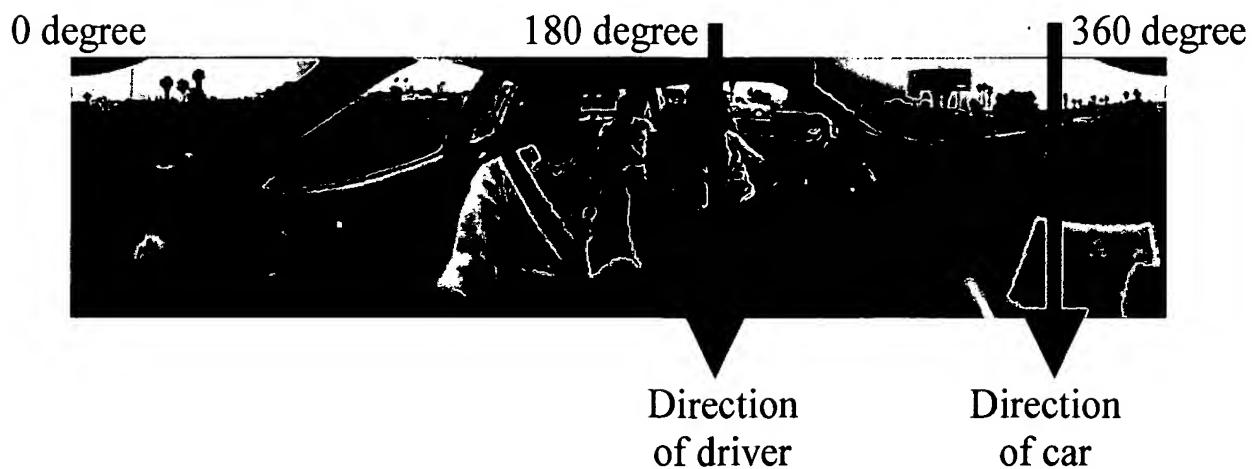


FIG. 14

Source omni-video

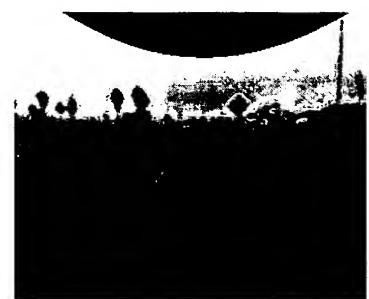


Face/gaze direction estimation



Relative angle to camera

Driver's view: 20° right

**FIG. 15**

Head Detection & Tracking



Face Orientation Estimation



Driver's View Generation



Head Detection & Tracking



Face Orientation Estimation



Driver's View Generation



Head Detection & Tracking



Face Orientation Estimation



Driver's View Generation



FIG. 16

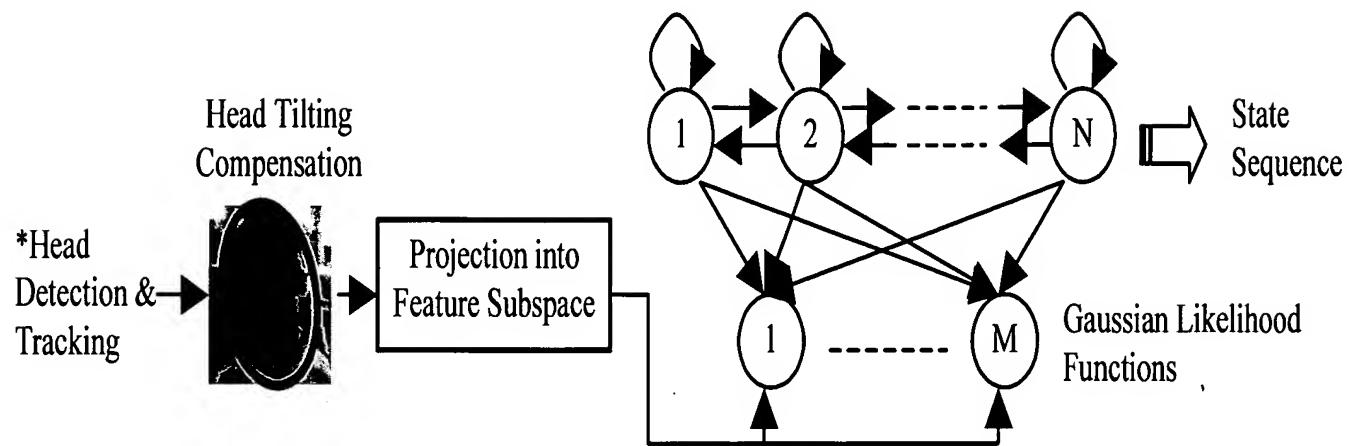
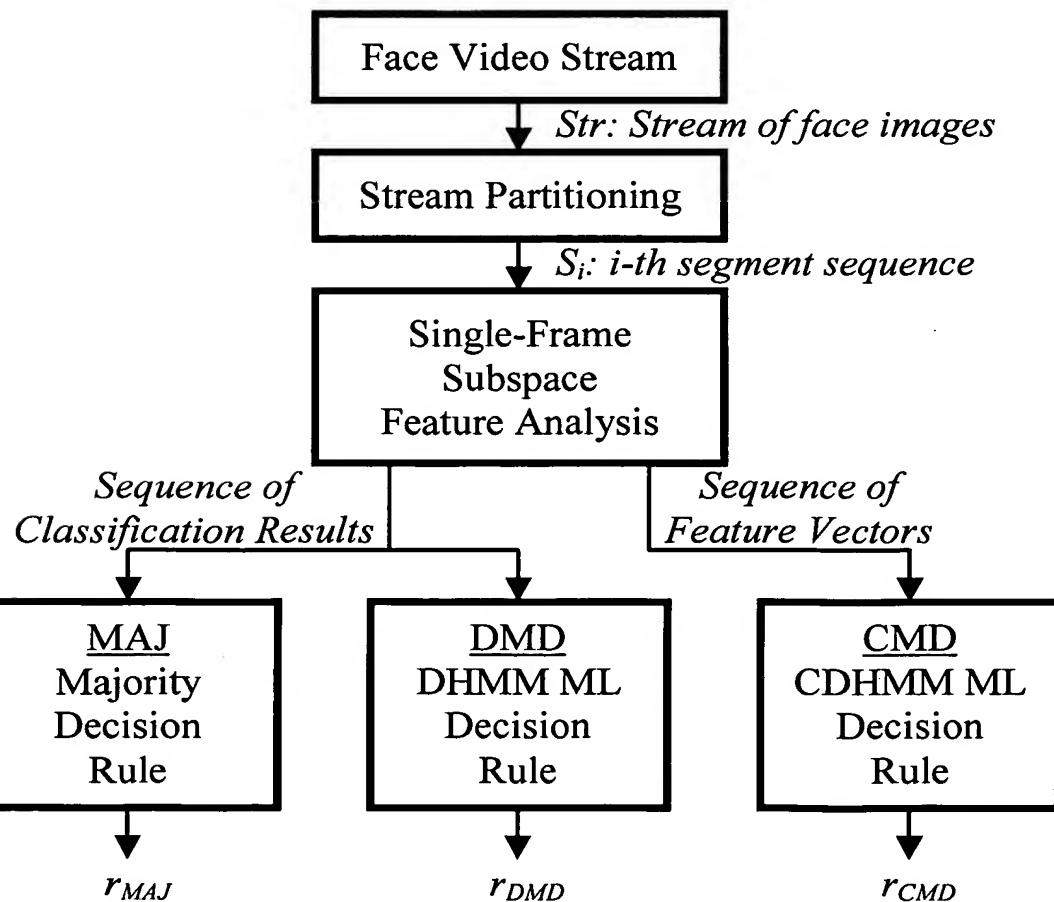


FIG. 17



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FIG. 18

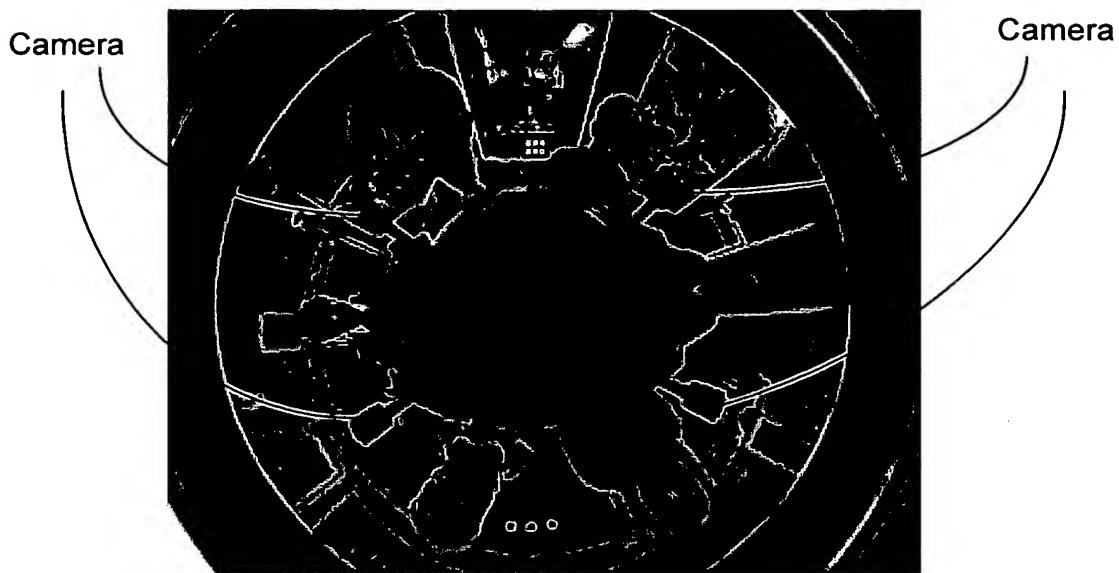


FIG. 19A

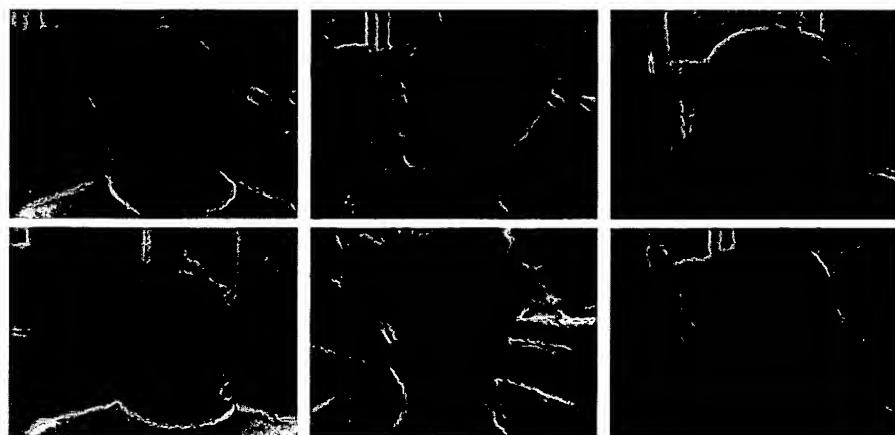


FIG. 19B

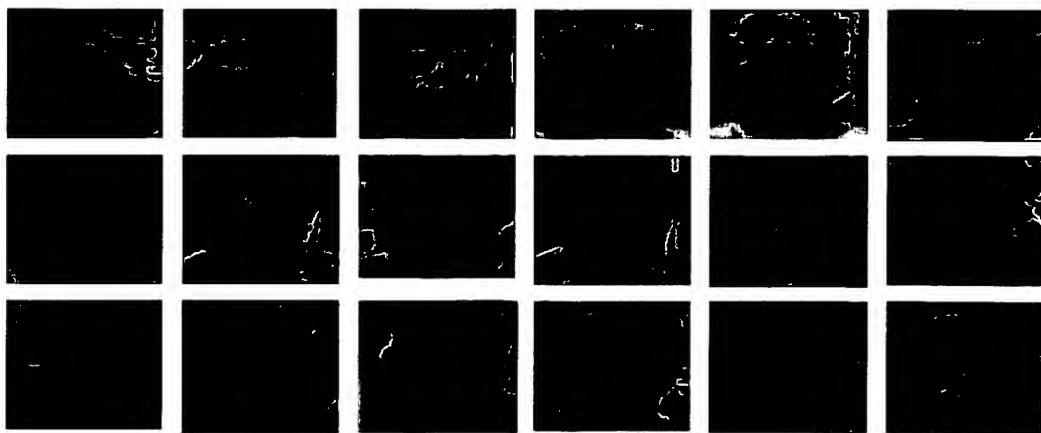


FIG. 20

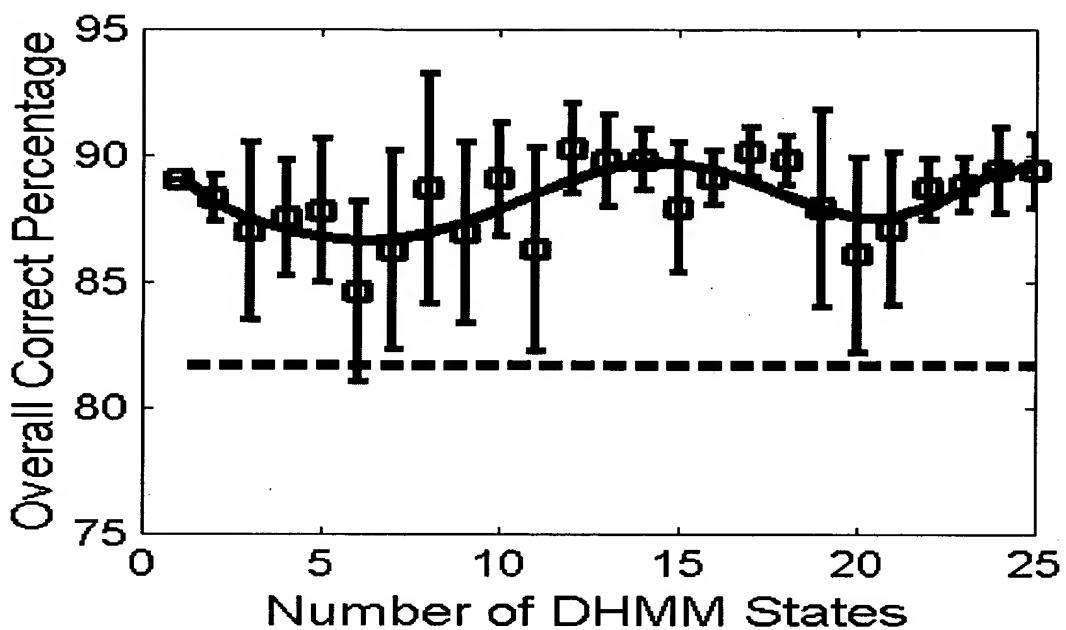


FIG. 21

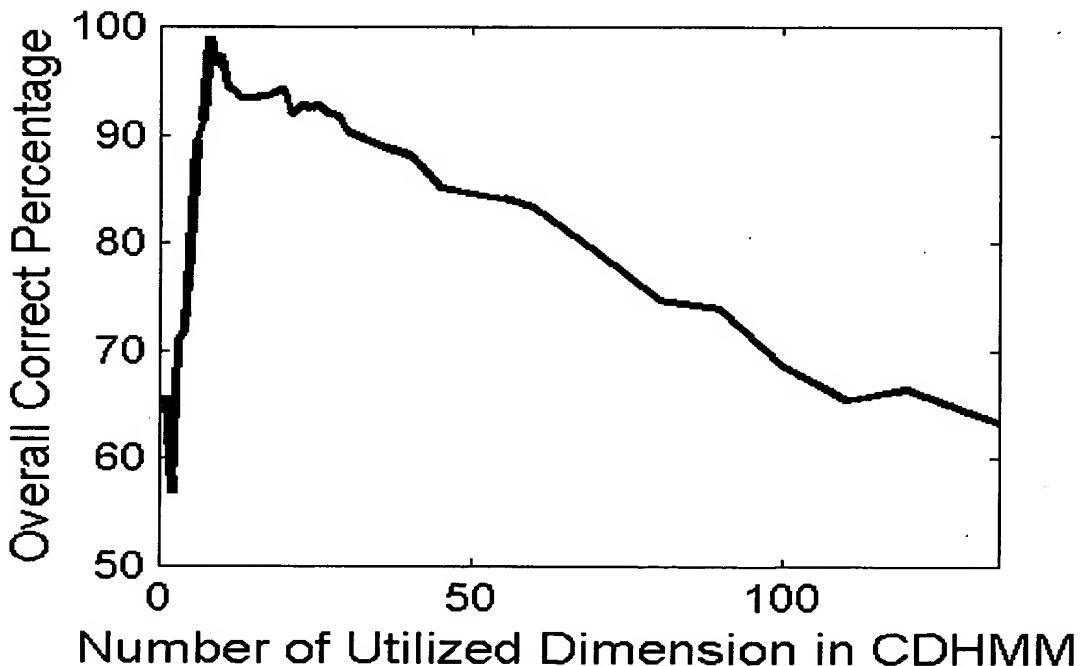


FIG. 22A

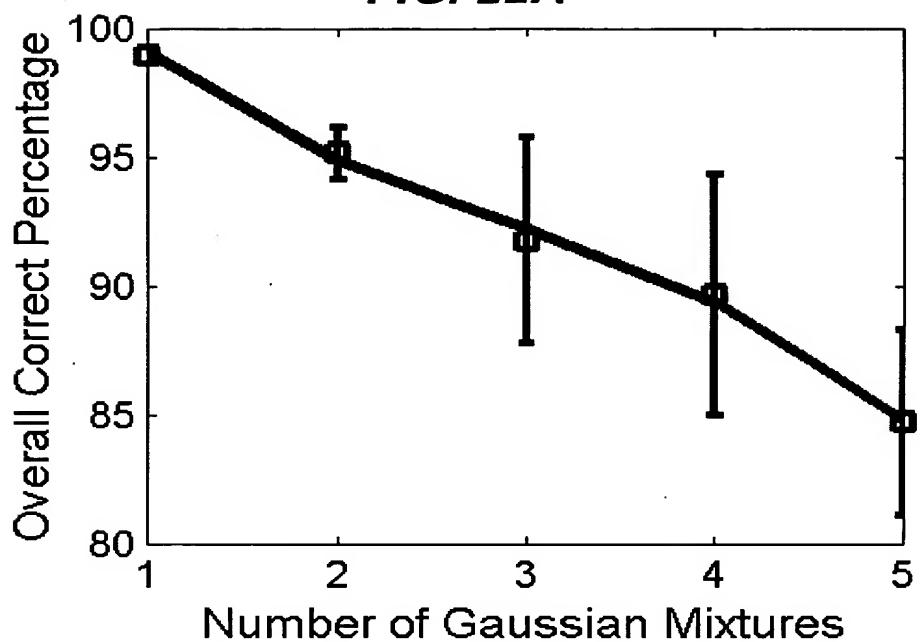


FIG. 22B

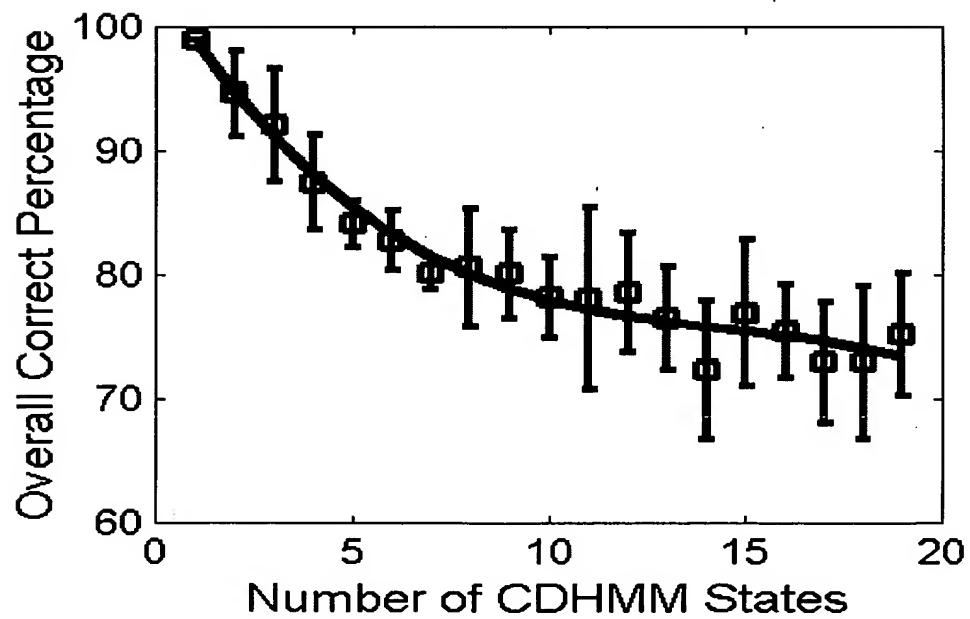


FIG. 23

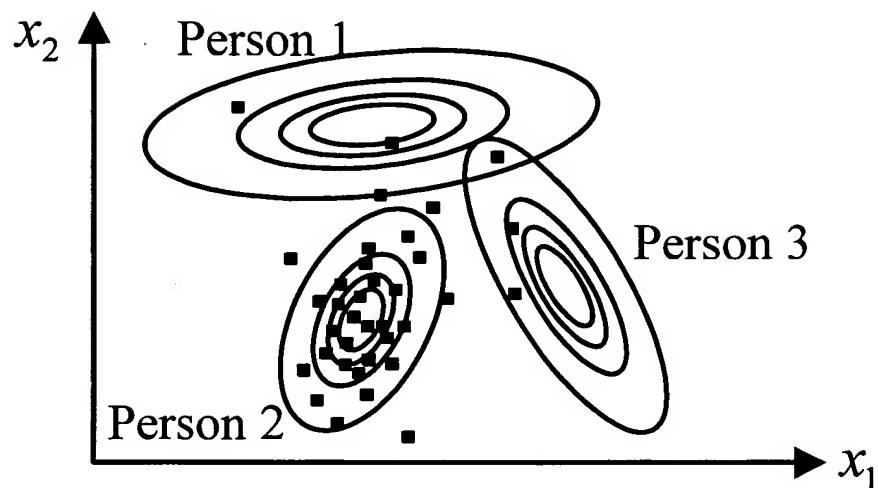


FIG. 24

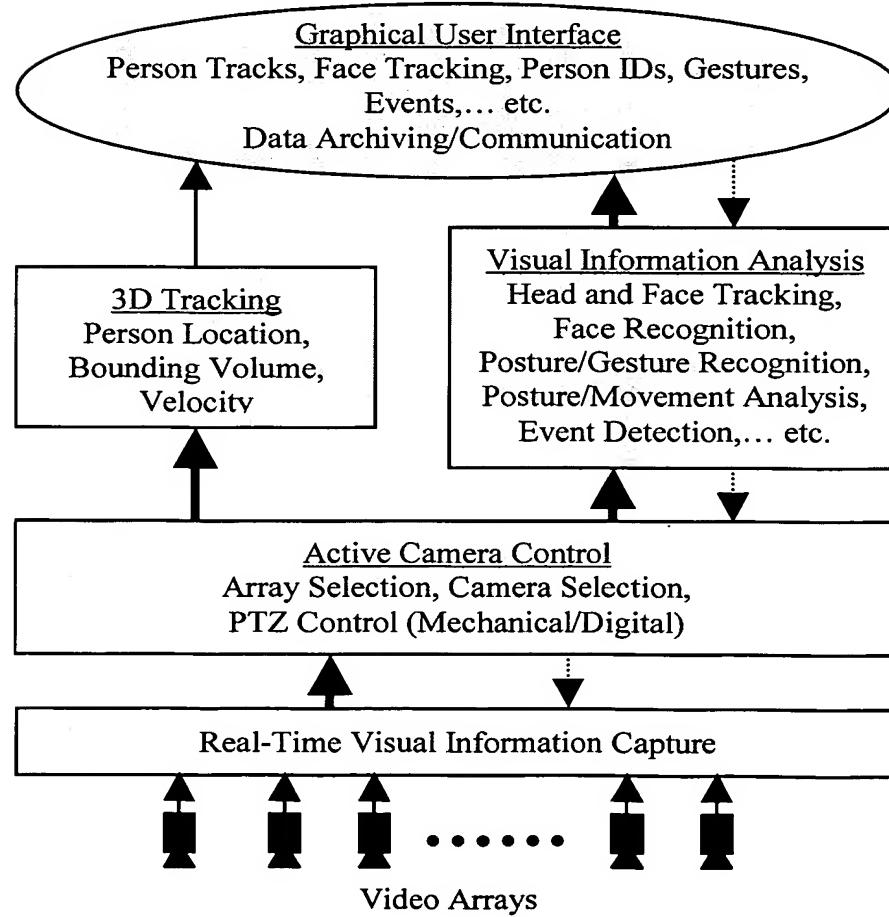


FIG. 25

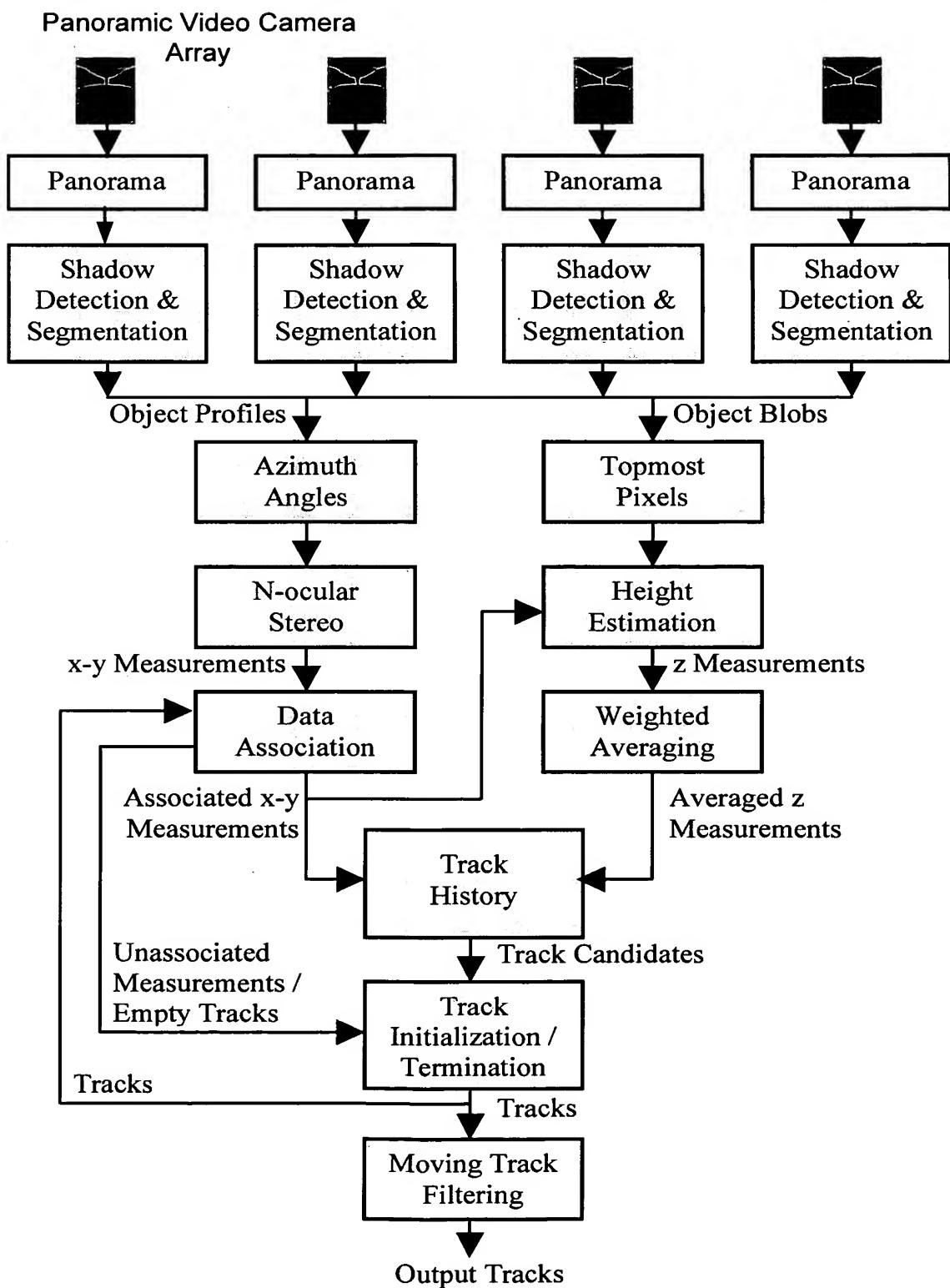


FIG. 26

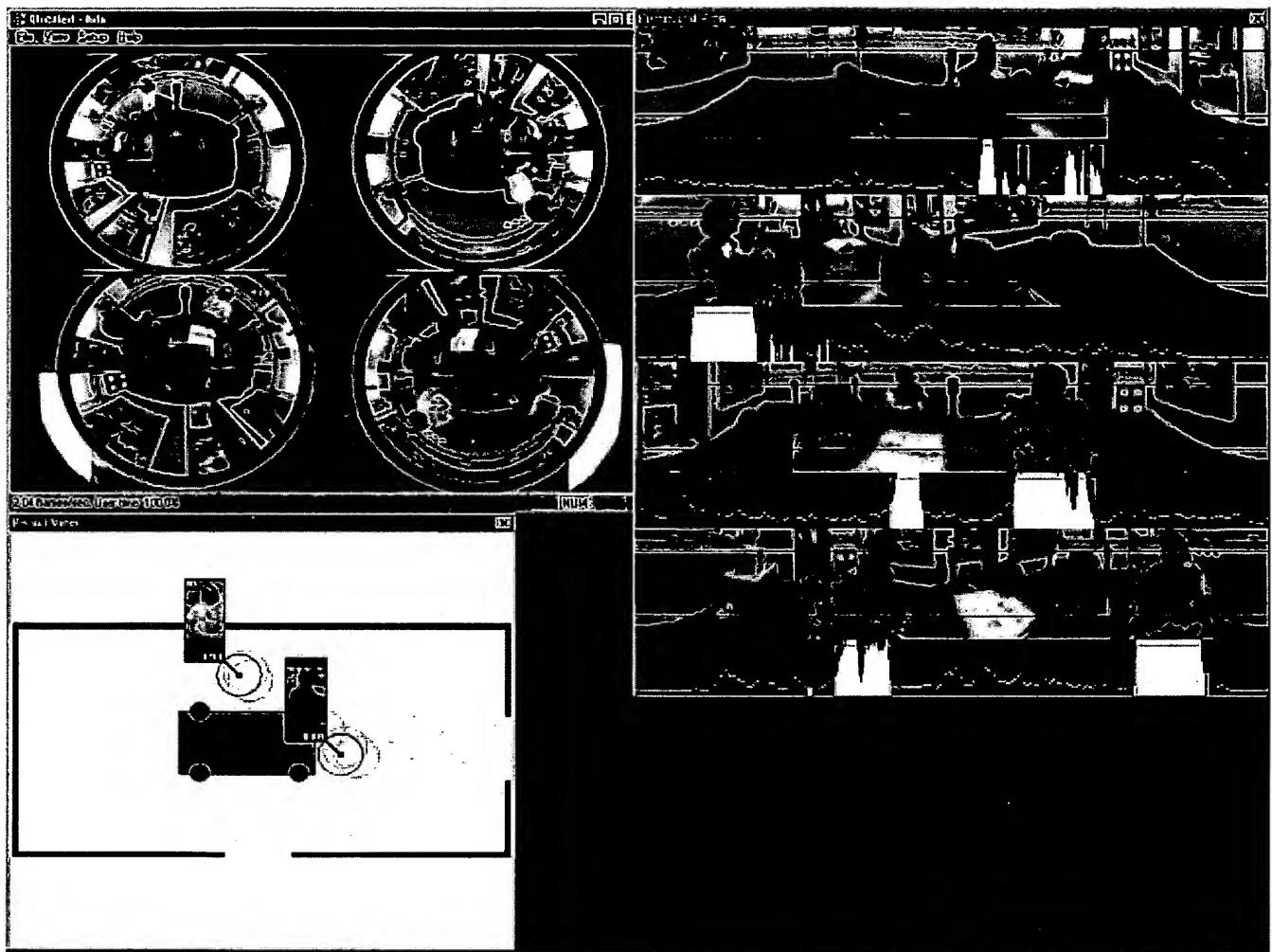


FIG. 27

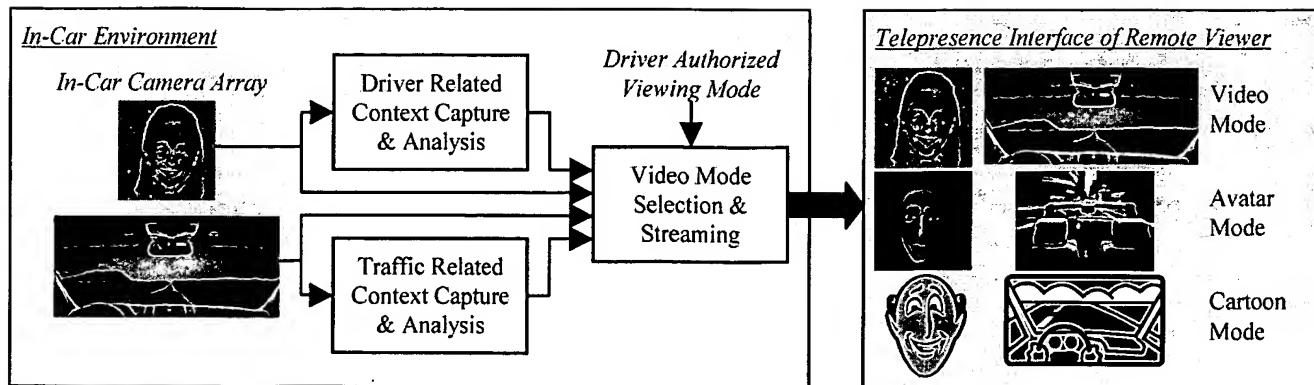


FIG. 28

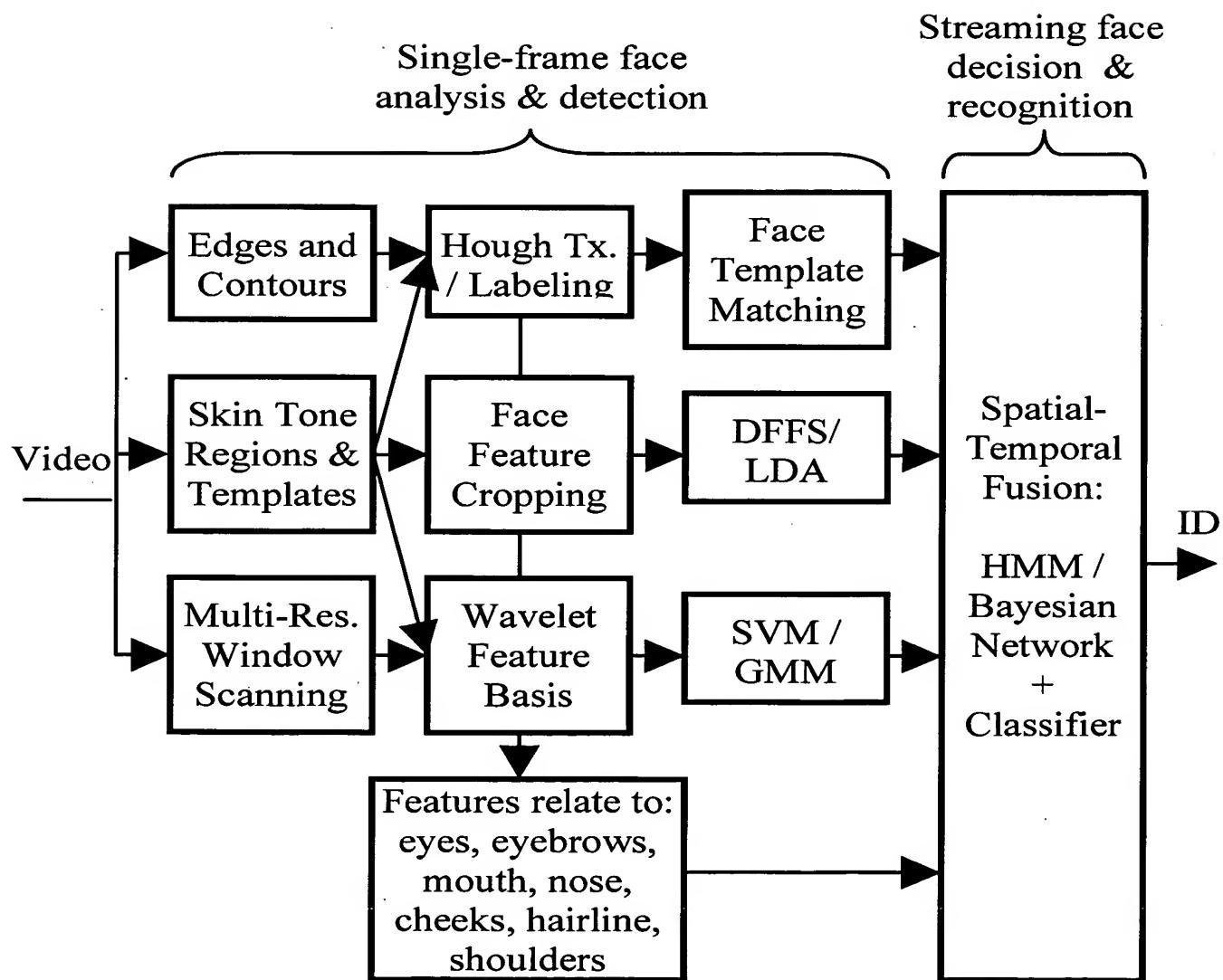


FIG. 29

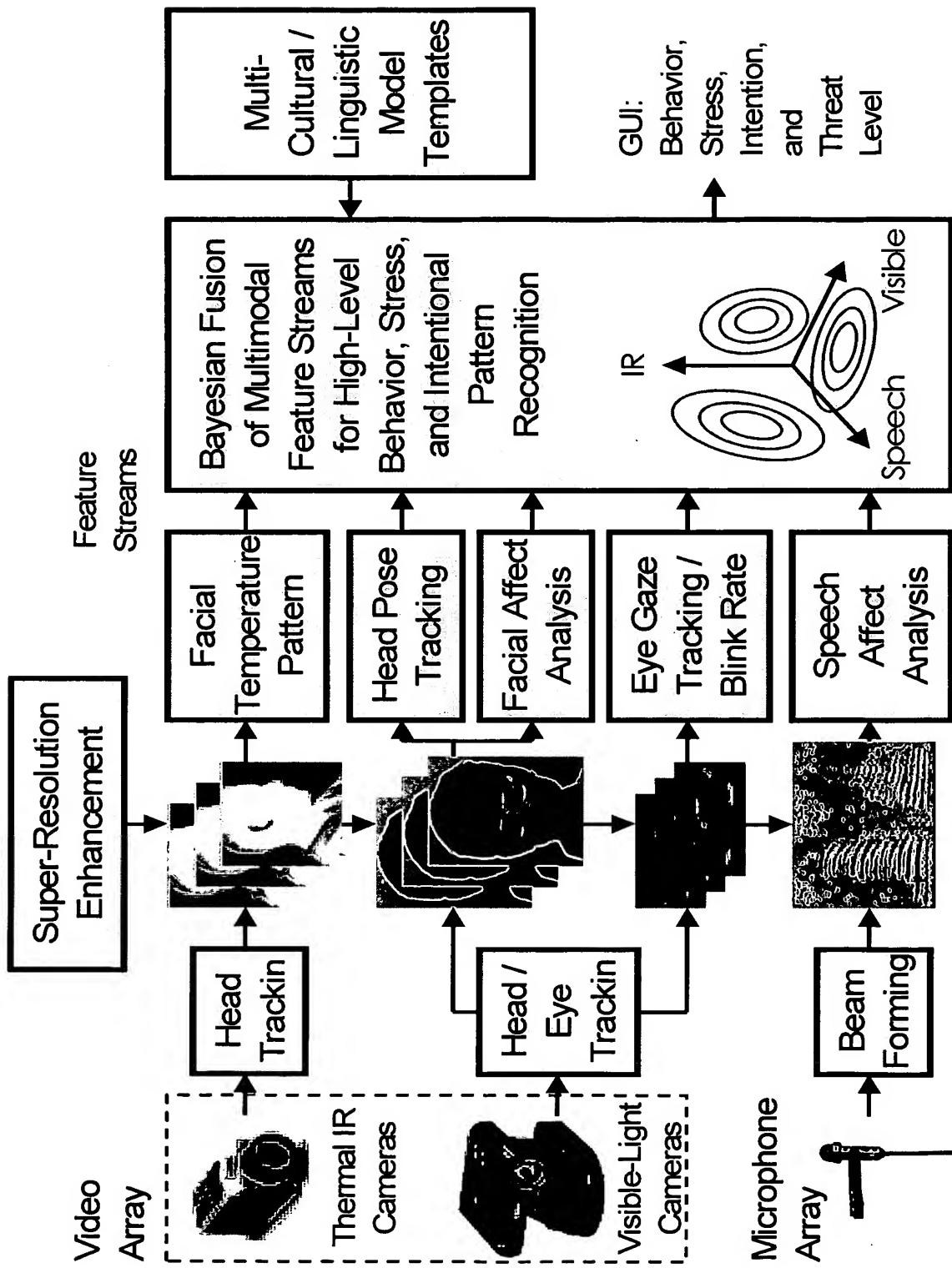


FIG. 30

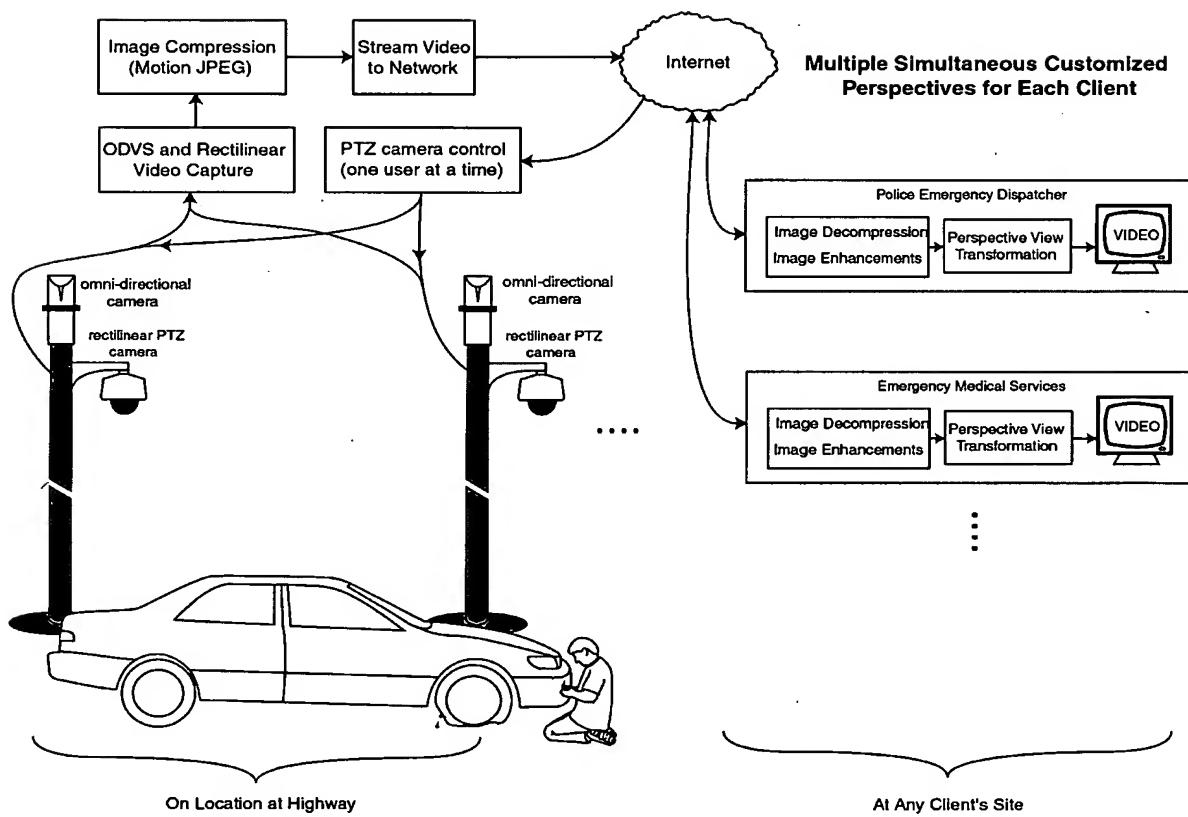


FIG. 31

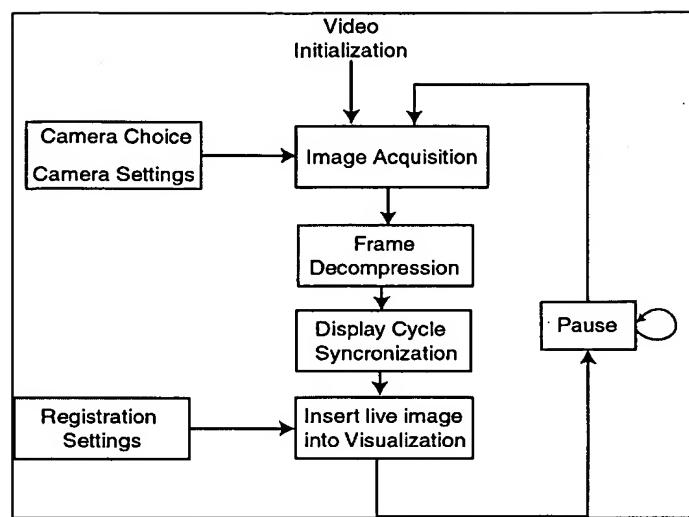


FIG. 32A



FIG. 32B

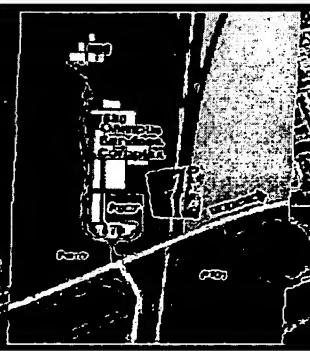


FIG. 32C



FIG. 33

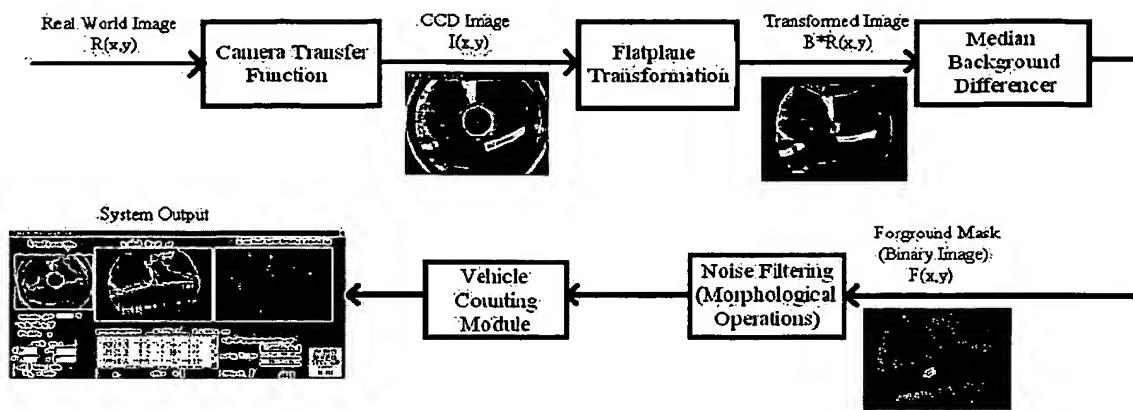
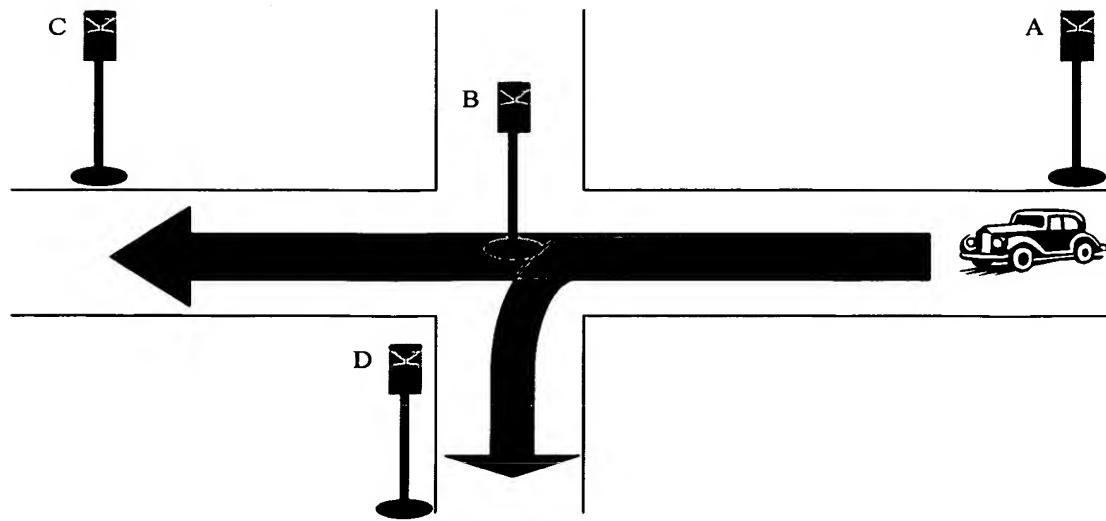


FIG. 34



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